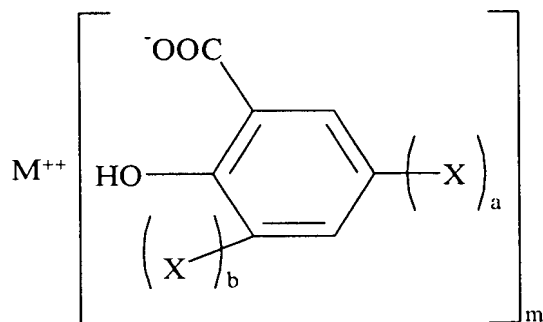


## CLAIMS

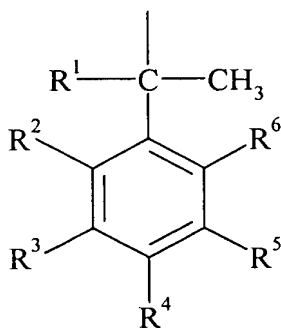
What is claimed is:

1. An engine oil comprising a lubricating oil, and an overbased alkaline earth salicylate detergent of the structure:



wherein:

X is



$R^1$  is selected from the group consisting of hydrogen, substituted or unsubstituted alkyl, and substituted or unsubstituted aryl;

$R^2$ ,  $R^3$ ,  $R^4$ ,  $R^5$ , and  $R^6$  are independently selected from the group consisting of hydrogen, X, and innocuous functional groups;

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22 a and b are independently selected integers  $\geq 0$  and  $a + b \geq 8$ ;

23 m is 2; and

24 M is an alkaline earth metal.

1 2. The engine oil of claim 1 wherein M is selected from the group consisting of calcium  
2 and magnesium

1 3. The engine oil of claim 1 wherein  $R^1$  is hydrogen or methyl.

1 4. The engine oil of claim 1 wherein  $R^1$  is substituted or unsubstituted aryl.

1 5. The engine oil of claim 4 wherein  $R^1$  is substituted or unsubstituted phenyl.

1 6. The engine oil of claim 1 wherein X is selected from the group consisting of styrene; 2,  
2 3, or 4-methylstyrene; 2 or 4-ethylstyrene; 3 or 4-isopropylstyrene;  
3 4-n-butylstyrene; 4-t-butylstyrene, 4-cyclohexylstyrene; 4-octylstyrene;  
4 2,4-dimethylstyrene; 2,5-dimethylstyrene; 3- or 4-methoxystyrene, 4-ethoxystyrene;  
5  $\alpha$ -methylstyrene;  $\alpha$ -ethylstyrene;  $\alpha$ -n-butylstyrene;  $\alpha$ -isobutylstyrene; 4-phenylstyrene; and  
6 4-fluorostyrene.

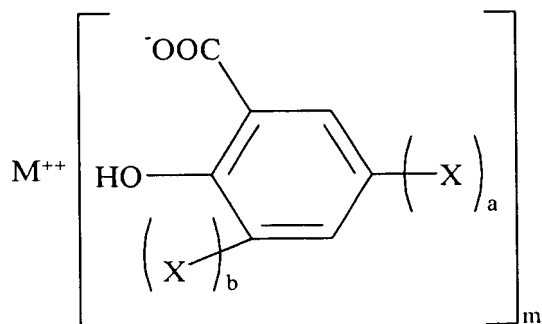
1 7. The engine oil of claim 6 wherein X is styrene.

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8. The engine oil of claim 1 wherein the base number is in the range of from about 60 to about 350 mg KOH/gram.

9. The engine oil of claim 1 wherein  $a + b$  is 8 to 40.

10. An engine oil comprising a lubricating oil, and an overbased alkaline earth salicylate detergent of the structure:



wherein:

X is styrene;

a and b are independently selected integers  $\geq 0$  and  $a + b$  is 8 to 40;

m is 2; and

M is an calcium or magnesium.